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and R. A. Isaeva

(NASA-TM-76213) HOURLY AVERAGE VALUES OF SOLAR WIND PARAMETERS (FLOW RATE AND ION TEMPERATURES) ACCORDING TO DATA OF MEASUREMENTS OF THE VENERA-9 AND VENERA-10 AUTOMATIC (National Aeronautics and Space

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16. Abstract <b>Measurements of solar wind parameters were carried out using data gathered by the "Venera-9" and "Venera-10" space stations, using an RIEP-V plasma spectrometer. The measurements were carried out during the earth to Venus trajectory and in orbit around Venus.</b>			
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HOURLY AVERAGE VALUES OF SOLAR WIND PARAMETERS  
(FLOW RATE AND ION TEMPERATURE)  
ACCORDING TO DATA OF MEASUREMENTS OF THE RIEP-V PLASMA SPECTROMETER  
ON BOARD THE VENERA-9 AND VENERA-10 AUTOMATIC INTERPLANETARY STATIONS  
ON AN EARTH/VENUS FLIGHT TRAJECTORY AND IN ORBIT AROUND VENUS  
DURING THE PERIOD JUNE 1975-APRIL 1976

O. L. Vaysberg, A. V. D'yachkov, V. N. Smirnov, K. B. Tsypkin,  
and R. A. Isaeva

Explanations for Data on Solar Wind Parameters

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The measurements of the spectral characteristics of the ionic component of plasma were carried out on board the "Venera-9" and "Venera-10" automatic interplanetary stations, using the RIEP-V plasma spectrometer. In order to obtain the parameters of the solar wind ionic flow, the readings of 4 cylindrical electrostatic analyzers with channel electron multipliers, in the capacity of detectors, were utilized. The axes of the fields of vision of two of these electrostatic analyzers were directed along the axis of the automatic interplanetary station, oriented towards the sun, while the other two were turned in one plane at angles of  $+15^\circ$  and  $-15^\circ$ . The full hemisphere of the angular diagram of each analyzer was  $\sim 5^\circ$ , the energetic resolution was  $\sim 6\%$ , and the geometric energy factor was  $2 \cdot 10^{-3} \text{ cm}^2 \text{ ave. kev.}$  Each analyzer covered an energetic range of  $\sim 10$  in eight energetic intervals.

On the flight trajectory towards Venus, the instrument usually operated in a mode for obtaining the energetic and angular distribution of the ions within 1 minute, with an interval between the measurement frames of 10 minutes, i.e., 6 spectra were recorded in 1 hour. The information was recorded on an on-board recorder. The measurements were carried out in lengthy recording sequences, but the measurements were not continuous. The obtained spectral distributions were processed, in order to obtain the velocity and temperature of the protons. Since the

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\*Numbers in the margin indicate pagination in the foreign text.

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spectral distributions were recorded in one plane, the concentration of the solar wind was not determined. The obtained parameters were averaged for an interval of 1 hour. The greater portion of the measurements was obtained on the "Venera-10" automatic interplanetary station. The measurements on the "Venera-9" were also utilized during the preparation of the tables and graphs, in order to fill the gaps in the information obtained from the "Venera-10" station. The given data are a result of the first stage of processing, and subsequent processing may introduce slight corrections into them.

The processing data are presented in the figures, as well as in tabular form. Indicated in the table for each date, in the course of which observations were carried out, are: the hour interval (universal time), and the hourly average solar wind velocity in kilometers per second. The asterisk marks the magnitudes obtained from measurements on "Venera-9", and the remaining data are from "Venera-10".

75. 6.19. v	75. 6.20. v	75. 6.21. v	75. 6.22. v	75. 6.23. v
I 365	I 373	I 509	I 454	I 406
10 375	10 387	2 494	2 449	10 404
11 371	15 351	3 473	3 438	7 393
12 378	16 358	4 461	4 424	7 393
13 372	17 354	5 469	5 434	8 392
14 378	18 357	6 490	6 418	5 359*
15 375	19 347	7 475	7 431	12 362*
16 373	20 347	8 475	8 438	11 375
17 349	21 347	9 502	9 428	8 371
18 346	22 347	10 481	10 407	10 366*
19 372	23 347	11 487	11 408	11 378
20 372	24 347	12 477	12 404	12 362
21 372	25 347	13 482	13 404	13 380
22 372	26 347	14 491	14 407	14 382
23 372	27 347	15 479	15 416	15 382
24 372	28 347	16 481	16 417	16 380
		17 477	17 412	17 372
		18 477	18 411	18 377
		19 452	19 410	19 374
		20 455	20 404	20 372
		21 457	21 399	21 372
				22 372
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				24 372

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75. 6.19. v	75. 6.20. v	75. 6.21. v	75. 6.22. v	75. 6.23. v
I 620	I 565	I 509	I 454	I 406
2 633	2 616	2 494	2 449	10 404
3 647	3 570	3 473	3 438	7 393
4 641	4 560	4 461	4 424	7 393
5 621	5 563	5 469	5 434	8 392
6 639	6 551	6 490	6 418	5 359*
7 663*	7 558	7 475	7 431	12 362*
8 624*	8 557	8 475	8 438	11 375
9 673	9 521	9 502	9 428	8 371
10 603	10 536	10 481	10 407	10 366*
11 617	11 532	11 487	11 408	11 378
12 619	12 511	12 477	12 404	12 362
13 615	13 499	13 482	13 404	13 380
14 594	14 499	14 491	14 407	14 382
15 566	15 506	15 479	15 416	15 382
16 571	16 522	16 481	16 417	16 380
17 569	17 510	17 477	17 412	17 372
18 544	18 485	18 477	18 411	18 377
19 591	19 481	19 455	19 410	19 374
20 563	20 482	20 457	20 399	20 372
				21 372
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75. 6.24. v	75. 6.25. v	75. 6.26. v	75. 6.27. v	75. 6.28. v
I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
366 366	354 369 363 393 383 383 395 424 394 392 400 384 392 388 397	403 386 411 386 392 401 436 368 349 386 366 401 404 391	366 397 401 421 459 466 462 473 493 503 530 490 515 511 501 511	520 516 517 536 522 662 619 642 578 598 555 553 549 543 543

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75. 6.29. v	75. 6.30. v	75. 7. 1. v	75. 7. 2. v	75. 7. 3. v
I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
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24	19		590

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3	8	503
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22	8	544
23	6	531
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5	7	507
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7	4	475
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9		
10		
11	4	472
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13		
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15	6	469
16	6	462
17	6	469
18	7	497
19	7	498
20		
21	7	488
22	6	476
23	6	472
24	6	455

	T	7.13.	v
1		6	455
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3			
4			
5		5	467
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7			
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9		8	507
10		10	505
11		11	513
12		9	505
13		11	504
14			
15			
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18		13	550
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21		30	503
22		17	503
23		20	525
24		8	565
25		14	560



75. 7.14. v	75. 7.15. v	75. 7.16. v	75. 7.17. v	75. 7.18. v
22 588 20 581 6 554	7 561 7 570 6 554 6 568 6 563 6 561 6 573 11 587 17 639 6 550 11 559 19 630 19 595	15 614	9 536 10 555 11 562 12 561 4 555 6 553 4 553 7 582 12 626 10 625 9 621 9 627 18 629	7 583 13 645

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75. 7.30. v	75. 7.31. *	75. 8. 1. v	75. 8. 2. *	75. 8. 3. *
4 462 18 463 4 468 154 464 444 416	12 377 11 375 13 361 20 371 47 327 53 327 10 378 24 372 10 382 8 391 16 389 16 393 19 377 20 394 21 388 22 393 23 394 24 389	11 388 19 381 6 398 9 399 12 365 17 371 27 367 13 364 7 378 9 377 8 389 7 386 14 328 48 307 16 350 10 371	11 384 9 370 16 382 12 363 5 371 5 376 9 381 11 387 11 393 11 375 8 397	31 355 29 363 31 402 92 366 6 376 7 374 7 367 68 299 8 373

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75. 8. 4. y			75. 8. 5. v			75. 8. 6. v			75. 8. 7. y			75. 8. 8. y			/16
T	8.	4. y	T	8.	5. v	T	8.	6. v	T	8.	7. y	T	8.	8. y	
16	362	*	32	554	*	23	493	*	4	466	*	7	401	*	
6	356	*				4	552	*				7	394	*	
5	379	*	20	587	*	6	551	*	21	434	*	12	412	*	
6	375	*				6	531	*	15	416	*	13	402	*	
10	360	*	20	589	*	10	502	*	16	413	*	13	402	*	
6	361	*	24	631	*	10	482	*	16	413	*	6	406	*	
6	373	*	13	584	*	10	482	*	14	396	*	6	412	*	
			18	555	*	10	479	*	13	388	*	6	406	*	
9	374	*				10		*							
13	378	*	9	561	*	13	430	*	15	387	*	12	439	*	
6	387	*							14	380	*				
12	476	*	16	593	*				11	363	*				
13	514	*							11	367	*				
									23	418	*				
									22	407	*				
									16	421	*				
31	575	*	8	616	*	8	613	*							

75. 8. 9. v			75. 8. 10. v			75. 8. 11. v			75. 8. 12. v			75. 8. 13. v			/17
T	8.	9. v	T	8.	10. v	T	8.	11. v	T	8.	12. v	T	8.	13. v	
			9	469	*	8	465	*	21	354	*	23	339	*	
			6	417	*	5	409	*				6	361	*	
						10	415	*	15	309	*	11	407	*	
			16	490	*	15	432	*	15	310	*	7	393	*	
			5	432	*	10	398	*	16	316	*				
			6	430	*	14	403	*	16	317	*				
21	440	*	11	470	*	70	451	*	14	312	*				
			17	464	*				16	317	*				
			17	450	*	14	404	*							
			13	417	*	6	438	*							
			33	417	*	11	435	*							
			12	438	*										
			37	444	*										
			20	467	*										
			31	450	*										
17	455	*	19	461	*										
10	460	*	18	477	*	13	382	*							
			12	486	*	14	381	*							

75. 8.14. v		75. 8.15. v		75. 8.16. v		75. 8.17. v		75. 8.18. v		/18	
10	380	10	386	10	384	10	388	10	388		
11	412	11	385	11	378	11	352	11	571		
12	409	12	378	12	360	12	552	12	558		
13	408	13	376	13	360	13	552	13	564		
14	401	14	376	14	360	14	552	14	567		
15	401	15	376	15	360	15	552	15	567		
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18	401	18	376	18	360	18	552	18	567		
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21	401	21	376	21	360	21	552	21	567		
22	401	22	376	22	360	22	552	22	567		
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24	401	24	376	24	360	24	552	24	567		

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75. 9.16.■			75. 9.17.■			75. 9.18.■			75. 9.19.■			75. 9.20.■		
T		Y	T		Y	T		Y	T		Y	T		Y
1			1	7	379	1	20	430	1			1	16	507
2			2	6	382	2	16	476	2			2	16	510
3	413		3	13	406	3	19	489	3			3	17	513
4			4			4	34	511	4			4	13	498
5			5			5	38	516	5			5	8	486
6	418		6	13	367	6	47	507	6	13	586	6	31	479
7			7			7	34	512	7	10	574	7	10	504
8			8			8	21	554	8	10	587	8	10	504
9			9			9	26	583	9	10	589	9	10	504
10	387		10			10	32	603	10	10	589	10	10	504
11			11			11	21	567	11	10	589	11	10	504
12			12			12	19	561	12	10	589	12	10	504
13	373		13	16	300	13	16	574	13	10	589	13	10	504
14			14	21	368	14	16	574	14	10	589	14	10	504
15			15			15	16	574	15	10	589	15	10	504
16			16	10	341	16	16	574	16	10	589	16	10	504
17			17	11	340	17	16	574	17	10	589	17	10	504
18			18	15	348	18	16	574	18	10	589	18	10	504
19			19	19	394	19	16	574	19	10	589	19	10	504
20			20	27	387	20	16	574	20	10	589	20	10	504
21			21	33	398	21	16	574	21	10	589	21	10	504
22			22	27	420	22	16	574	22	10	589	22	10	504
23			23	32	445	23	16	574	23	10	589	23	10	504
24			24			24	16	574	24	10	589	24	10	504

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75. 9.21.■			75. 9.22.■			75. 9.23.■			75. 9.24.■			75. 9.25.■		
T		Y	T		Y	T		Y	T		Y	T		Y
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3			3			3			3			3	10	372
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75. 9.27. M		75. 9.28. M		75. 9.29. M		75. 9.30. M		75. 10. 01. M	
T	V	T	V	T	V	T	V	T	V
		1	322	1	375			1	415
		2	318	2	384			2	412
		3	317	3	431			3	407
		4		4	432			4	403
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		7		7				7	
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		9		9				9	
		10	351	10	396			10	406
		11	361	11	410			11	379
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		24		24					
15	356	10	374	14	369	11	318	10	390
11	362	11	373	15	361	12	361	11	437
		12	389	16	355			12	376
6	329	13	376	17	341	5	322	13	378
		14	351	18	319	4	314	14	373
5	324	15	370	19		6	316	15	363
				20		7	369	16	376
				21				17	377
				22				18	367
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				24				20	339
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								23	355
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75.10. 2.		75.10. 3		75.10. 4.		75.10. 5.		75.10. 6M		75.10. 7.	
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		1	319	1	452	1	439	1	317	1	506
		2	309	2	415	2	446	2	312	2	478
		3		3	413	3	434	3	317	3	473
		4		4		4	426	4		4	475
		5		5		5	421	5		5	444
		6		6		6	413	6		6	473
		7		7		7	413	7		7	486
		8		8		8	411	8		8	499
		9		9		9	411	9		9	
		10		10		10	411	10		10	
		11		11		11	411	11		11	
		12		12		12	411	12		12	
		13		13		13	411	13		13	
		14		14		14	411	14		14	
		15		15		15	411	15		15	
		16		16		16	411	16		16	
		17		17		17	411	17		17	
		18		18		18	411	18		18	
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		20		20		20	411	20		20	
		21		21		21	411	21		21	
		22		22		22	411	22		22	
		23		23		23	411	23		23	
		24		24		24	411	24		24	
10	373	11	307	12	452	14	439	12	317	16	506
11	373			13	415	15	446	13	312	17	478
12	373			14	413	16	434	14	317	18	473
13	373			15		17	426	15		19	475
14	373			16		18	421	16		20	444
15	373			17		19	413	17		21	473
16	373			18		20	411	18		22	486
17	373			19		21	411	19		23	499
18	373			20		22	411	20		24	
19	373			21		23	411	21			
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75.10.8. v			75.10.9. v			75.10.10. v			75.10.11. v			75.10.12. v		
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1	17	535	1	10	533	1	24	596	1	1		1	35	529
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3	13	540	3	16	550	3			3	12	559	3	12	552
4	22	563	4	38	597	4			4	25	565	4	25	565
5	14	563	5			5			5			5		
6	10	528	6	11	552	6			6	15	560	6	6	497
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8	13	530	8	11	552	8			8	15	560	8	15	540
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13	13	563	13	13	578	13			13	15	560	13	15	507
14	13	536	14	13	578	14			14	15	560	14	15	509
15	13	535	15	13	578	15			15	15	560	15	15	502
16	13	534	16	13	578	16			16	15	560	16	15	491
17	11	539	17	13	578	17			17	15	560	17	15	524
18	10	539	18	13	578	18			18	15	560	18	15	522
19	10	532	19	13	578	19			19	15	560	19	15	471
20	8	558	20	10	554	20			20	15	560	20	15	458
21	12	558	21	10	570	21			21	15	560	21	15	471
22	14	559	22			22			22	15	560	22	15	452
23	11	549	23			23			23	15	560	23	15	452
24			24			24			24	15	560	24	15	452

75.10.13. v			75.10.15. v			75.10.16. v			75.10.17. v			75.10.18. v		
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2	7	487	2	11	317	2	11	317	2	11	317	2	11	317
3	8	462	3	11	347	3	11	347	3	11	347	3	11	347
4	7	456	4	10	336	4	10	336	4	10	336	4	10	336
5			5	9	389	5	9	389	5	9	389	5	9	389
6			6	8	383	6	8	383	6	8	383	6	8	383
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75.II.7.v			75.II.8.v			75.II.10.v			75.II.11.v			75.II.12.v		
T			T			T			T			T		
1			1	570		1			1	523		1	6	419
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3			3	650		3			3	500		3	12	395
4			4	643		4			4	485		4		
5			5	647		5			5	498		5		
6			6	641		6			6	480		6		
7			7	640		7			7	508		7		
8			8			8			8	513		8		
9			9			9			9	513		9		
10			10			10			10	480		10		
11			11			11			11	481		11		
12			12			12			12	469		12		
13			13			13			13	498		13		
14			14			14			14	474		14		
15			15			15			15	466		15		
16			16			16			16	473		16		
17			17			17			17	474		17		
18			18			18			18	465		18		
19			19			19			19	462		19		
20			20			20			20			20		
21			21			21			21			21		
22			22			22			22			22		
23			23			23			23	5	407	23		
24			24			24			24	5	417	24		

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75.II.16.v			75.II.17.v			75.II.18.v			75.II.19.v			75.II.20.v		
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3			3	500		3	20	520	3	19	534	3	10	463
4			4	524		4	18	493	4	18	543	4	12	460
5			5	508		5	19	507	5	16	524	5	20	473
6			6	532		6	17	491	6	14	500	6	11	463
7			7	551		7	18	501	7	18	473	7	16	475
8			8	539		8	14	483	8			8	12	467
9			9	521		9	18	484	9	13	456	9	17	447
10			10	488		10	13	484	10	19	493	10	18	425
11			11	504		11	8	457	11	9	495	11	22	414
12			12	483		12	17	489	12	17	483	12		
13			13	500		13	12	467	13	11	491	13	12	429
14			14	525		14	15	467	14	9	497	14	6	386
15			15	500		15	23	494	15	16	532	15	6	401
16			16	514		16			16	26	533	16	6	400
17			17	525		17			17	26	534	17	11	416
18			18	515		18			18	34	517	18	12	388
19			19	500		19			19	20	515	19	12	365
20			20	527		20			20	23	497	20	18	336
21			21	530		21			21	21	503	21		
22			22	506		22			22	14	479	22		
23	30	473	23	515		23			23	13	474	23		
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24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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2	362	5.11
3	363	5.11
4	364	5.11
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22	382	5.11
23	383	5.11
24	384	5.11

75. II. 3.

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163	491
164	508
44	490
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44	479
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75. II. 25. T V

75.II.26. v			75.II.27. v			75.II.28. v			75.II.29. v			75.II.30. v		
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3	8	425	3			3	14	403	3			3	5	457
4	9	440	4			4	7	418	4			4	5	488
5	10	455	5	5	408	5			5			5	4	448
6	11	470	6	20	449	6	6	421	6	23	611	6	4	454
7	12	485	7	27	454	7	8	419	7	30	632	7	4	420
8	13	499	8	10	438	8	14	435	8			8	3	421
9	14	438	9	11	447	9	10	432	9			9	3	419
10	15	458	10	23	471	10	14	449	10			10	3	407
11	16	458	11	13	461	11	5	456	11	9	534	11	5	389
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13	18	454	13	16	439	13	25	403	13	6	526	13		401
14	19	433	14	21	434	14	4	437	14	5	530	14		
15	20	422	15	16	438	15	6	462	15	19	517	15	7	368
16	21	419	16	13	414	16	5	425	16	27	511	16	7	484
17	22	408	17	11	440	17	30	477	17	19	514	17	4	399
18	23	381	18	29	442	18	42	521	18	21	536	18	4	396
19	24	395	19	17	457	19	43	533	19	27	526	19		
20		393	20	12	453	20	40	560	20	9	520	20	8	343
21		412	21	13	450	21			21	7	528	21		
22		392	22	16	461	22			22	6	526	22	7	381
23		406	23	8	473	23			23	5	526	23	7	384
24		399	24	16	468	24			24		523	24		
		422												

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75.I2. 1. v			75.I2. 2. v			75.I2. 3. v			75.I2. 7. v			75.I2. 8. v		
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4	4	360	4	19	435	4	13	548	4	17	543	4	13	539
5	2	381	5	12	453	5	31	616	5	12	547	5	16	552
			6	10	478	6	15	561	6			6	15	548
			7	11	437	7			7			7	16	562
			8	13	440	8			8			8	12	567
			9	17	473	9			9			9	10	553
			10	23	494	10			10			10	17	573
			11	33	507	11			11			11	10	545
			12	28	504	12			12			12	10	537
			13	35	482	13			13	13	556	13	13	532
			14	27	487	14			14	20	564	14	13	517
			15	50	466	15			15	14	555	15	11	515
			16	37	479	16			16	10	541	16	13	503
			17	35	482	17			17	18	548	17	10	508
			18	25	496	18			18	11	569	18	12	513
			19	17	515	19			19	9	564	19	11	535
			20	13	502	20			20	16	552	20	14	539
			21	21	527	21			21	13	560	21	15	542
			22	15	542	22			22	12	558	22	15	533
			23	12	534	23			23	15	548	23	13	585
			24	11	535	24			24	16	566	24	17	545
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76. 1. 6.

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10	17	357
11	7	414
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13	10	409
14	16	397
15	25	407
16	17	383
17	18	477
18	36	427
19	12	445
20	19	471
21	23	530
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8	6	392
9	9	427
IO	I4	383
II	I6	475
I2	I5	396
I3	I3	423
I4	24	378
I5	20	382
I6		
I7	2	384
I8	22	372
I9	IO	368
20	I7	390
2I	I9	395
22	2I	364
23		
24	II	378

76. 2. 9.  
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76. 2.10.

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7	9	429
8	11	427
9	17	410
10	28	409
11	12	384
12	11	389
13	12	332
14	12	395
15	10	393
16	6	396
17	9	397
18	8	396
19	10	396
20	9	391
21	10	402
22	9	393
23	11	397
24	10	398

76. 2.II.

I	II	399
2	II	397
3	20	362
4	14	405
5	13	370
6	48	333
7	33	373
8	14	353
9	18	393
10		
11	10	436
12	10	420
13	8	440
14	8	424
15	6	415
16	8	435
17	15	432
18	16	451
19	19	
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21		
22	8	434
23	II	400
24	II	405

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76. 2.13. y			76. 2.14. y			76. 2.15. y			76. 2.16. y			76. 2.17. y		
I	8	381	I	16	459	I	86	300	I	27	522	I	15	415
II	7	388	II	17	473	II	60	472	II	25	496	II	19	407
III	8	398	III	36	440	III			III	21	494	III	13	415
IV	12	387	IV	13	433	IV			IV	21	496	IV	11	452
V			V	12	455	V			V	19	501	V		
VI	13	468	VI	14	424	VI	5	386	VI	20	485	VI	8	482
VII	28	330	VII	15	425	VII	38	309	VII	16	466	VII	7	490
VIII	22	366	VIII	22	446	VIII	15	353	VIII			VIII	6	419
IX	23	383	IX	13	472	IX	15	295	IX	21	445	IX	8	419
X	18	369	X	17	447	X	71	343	X	23	443	X	21	414
XI	24	367	XI	14	469	XI	50	408	XI	23	462	XI	23	432
XII	6	432	XII	26	439	XII	36	456	XII	13	461	XII	37	466
I	25	385	I	16	496	I	36	467	I	13	484	I	31	467
II	20	365	II	10	480	II	56	497	II	14	499	II	16	469
III			III	7	439	III	46	539	III	15	477	III	17	466
IV			IV	13	477	IV	37	510	IV	14	459	IV	15	456
V			V	10	470	V	33	463	V	15	456	V	18	448
VI	II	377	VI	10	421	VI	35	461	VI	18	448	VI	14	431
VII	IO	382	VII	7	410	VII	35	507	VII	19	431	VII	5	422
VIII			VIII	8	441	VIII	22	514	VIII	21	422	VIII	13	406
IX			IX	16	493	IX	16	421	IX	22	406	IX	11	421
X	5	390	X	22	448	X	16	528	X	23	421	X	10	411
XI	17	421	XI	9	408	XI			XI	24	411	XI		

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76. 2.18. y			76. 2.19. y			76. 2.20. y			76. 2.21. y			76. 2.22. y		
I			I			I	13	369	I	16	413	I		
II			II			II	14	403	II	11	434	II	5	434
III			III			III	15	414	III	12	423	III	13	456
IV			IV			IV	5	417	IV	12	406	IV	12	463
V			V			V		400	V	12	429	V	20	460
VI			VI			VI	II	440	VI	9	428	VI	13	451
VII			VII			VII	II	441	VII	26	410	VII	13	431
VIII			VIII			VIII	IO	443	VIII	14	426	VIII	14	434
IX			IX			IX	10	440	IX	6	415	IX	14	446
X			X			X	12	425	X	53	370	X	13	461
XI			XI			XI	5	411	XI	38	396	XI	13	407
XII			XII			XII	14	414	XII	14	405	XII	13	417
I			I			I	14	413	I	14	405	I	13	397
II			II			II	6	400	II	14	426	II	13	407
III			III			III			III	15	413	III	13	417
IV			IV			IV			IV	16	413	IV	13	417
V			V			V			V	16	413	V	13	417
VI			VI			VI			VI	16	413	VI	13	417
VII			VII			VII			VII	16	413	VII	13	417
VIII			VIII			VIII			VIII	16	413	VIII	13	417
IX			IX			IX			IX	16	413	IX	13	417
X			X			X			X	16	413	X	13	417
XI			XI			XI			XI	16	413	XI	13	417
XII			XII			XII			XII	16	413	XII	13	417
I			I			I			I	16	413	I	13	417
II			II			II			II	16	413	II	13	417
III			III			III			III	16	413	III	13	417
IV			IV			IV			IV	16	413	IV	13	417
V			V			V			V	16	413	V	13	417
VI			VI			VI			VI	16	413	VI	13	417
VII			VII			VII			VII	16	413	VII	13	417
VIII			VIII			VIII			VIII	16	413	VIII	13	417
IX			IX			IX			IX	16	413	IX	13	417
X			X			X			X	16	413	X	13	417
XI			XI			XI			XI	16	413	XI	13	417
XII			XII			XII			XII	16	413	XII	13	417

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76. 2. 24.		76. 2. 25.		76. 2. 26.		76. 2. 27.	
12	568	12	568	12	568	12	568
13	568	13	568	13	568	13	568
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76. 3. 4.		76. 3. 5.		76. 3. 6.		76. 3. 7.		76. 3. 8.	
12	355	12	355	12	355	12	355	12	355
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18	355	18	355	18	355	18	355	18	355
19	355	19	355	19	355	19	355	19	355
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21	355	21	355	21	355	21	355	21	355
22	355	22	355	22	355	22	355	22	355
23	355	23	355	23	355	23	355	23	355
24	355	24	355	24	355	24	355	24	355

76. 3. 9. y			76. 3. 10. y			76. 3. 11. y			76. 3. 12. y			76. 3. 13. y		
T		y	T		y	T		y	T		y	T		y
1			1	16	500	1	9	398	1	12	376	1	8	413
2			2	18	504	2	9	411	2	22	370	2	16	382
3			3	23	489	3	17	398	3			3	7	403
4			4	18	499	4	11	398	4			4		
5			5	21	498	5	12	382	5			5	14	450
6			6	17	507	6	12	395	6			6	14	433
7			7	18	496	7	14	390	7			7	16	427
8			8	18	483	8			8			8	14	411
9			9	15	461	9	9	374	9			9	9	395
10			10	21	488	10	6	380	10	12	366	10		
11	17	537	11	11	478	11	6	379	11	12	365	11		
12	14	547	12	12	470	12			12	12	398	12	3	415
13			13	13	466	13			13	12	397	13		
14			14			14	11	371	14	18	415	14		
15			15	25	404	15	9	373	15	6	432	15	9	392
16			16	16	492	16	27	350	16	14	395	16	6	401
17	21	519	17	19	400	17			17	6	382	17	13	423
18	26	526	18	12	395	18	10	365	18			18	11	420
19			19	12	418	19	7	364	19	22	406	19	22	421
20	13	496	20	8	419	20			20	19	428	20		
21	14	514	21	18	415	21			21	7	483	21	5	409
22	10	486	22	14	421	22			22	17	399	22	27	389
23	19	508	23	12	438	23	8	355	23	12	432	23		
24	17	498	24	37	453	24			24	24	384	24	6	411
										9	417			

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76. 3. 14. y			76. 3. 15. y			76. 3. 16. y			76. 3. 17. y			76. 3. 19. y		
T		y	T		y	T		y	T		y	T		y
1			1	11	356	1			1	13	407	1		
2			2	30	378	2			2	9	400	2		
3						3			3	10	405	3		
4						4			4	12	418	4		
5						5			5			5		
6						6			6			6	27	447
7						7			7			7	22	441
8						8			8			8	21	439
9						9			9			9	18	428
10						10			10			10	16	418
11						11			11			11	13	420
12						12			12			12	10	430
13						13			13			13	10	430
14						14	15	365	14			14	10	429
15						15	9	360	15			15	10	416
16						16	17	369	16			16	10	416
17						17	16	380	17			17	10	416
18						18	20	379	18			18	10	416
19						19	18	379	19			19	10	416
20						20	18	360	20			20	10	416
21						21	11	389	21			21	10	416
22						22	11	364	22			22	10	416
23						23	11	396	23			23	10	416
24						24	10	402	24			24	10	416

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